

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO. FILING DATE		IG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/704,848	09/704,848 11/02/2000		Mats Olsson	45051-00004	4869
7.	590	03/28/2003			
Stanley R Moore Esq			EXAMINER		
Jenkens and Gilchrist PC 3200 Fountain Place 1445 Ross Ave Dallas, TX 75202				WIMER, MICHAEL C	
				ART UNIT	PAPER NUMBER
•				2821	
				DATE MAILED: 03/28/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s)						
Offic Action Summary 09/704,848 OLSSON ET AL.						
Annual A						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address	S					
Period f r Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on <u>11 February 2003</u> .						
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1,2 and 4-24</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>20-23</u> is/are allowed.						
6)⊠ Claim(s) <u>1,2,4-12,19 and 24</u> is/are rejected.						
7)⊠ Claim(s) <u>13-18</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional app	lication).					
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)						

Application/Control Number: 09/704,848

Art Unit: 2821

DETAILED ACTION

Claim Rej ctions - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,2,4,5,7-11,16/11,17-19 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Pal et al (5572227).

Regarding Claims 1,2,4,5,7-11,16/11,17-19 and 24, Pal et al teaches a multiband antenna array antenna for use with portable hand held radios, comprising a flexible antenna support composed of an insulator sheet 4 of Kapton™, with printed circuit antenna elements 1-3 all resonant in respective bands and covered by a flexible radome 11, all arranged as claimed. The entire antenna including the housing 11 is deemed flexible because of its use on a hand held radio, and by virtue of the thin plastic material used in the substrate 4 and radome 11. The antennas are taught to be operational on L, S and UHF bands, as claimed. Ground terminals are near the connectors, coaxial lead-outs for each antenna band.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

Art Unit: 2821

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,2,4,5,7-11,12,16/11,16/12,17-19 and 24 are rejected under 35 U.S.C. 4. 103(a) as being unpatentable over UK Pat. No. 2322011A (Pal et al) in view of Pal et al (5572227).

Regarding Claims 1,2,4,5,7-11,12,16/11,16/12,17-19 and 24, Pal et al (UK 2322011) also teaches a multiband antenna array 26,28 mounted on a flexible dielectric substrate 24 and covered by a flexible, plastic housing/radome 42 and mounted on a portable radio 10, with ground portions on the networks 30,32 and fed with coaxial cables 34 and 38. It is obvious to the skilled artisan that the whip antenna formed by the flexible film and radome, combined, provide a flexible whip always desired in a portable transceiver. As to Claim 12, the radio 10 is built with a p.c. board and the cables are connected thereto. Pal et al ('227) is cited teaching the frequency bands recited to be obvious to the skilled artisan.

5. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pal et al in view of Pal et al as applied to claims 1,4,5 above, and further in view of Korisch (5926139).

Korisch is cited to show that an inverted-F antenna is a planar device formed on a substrate. It would have been obvious to the skilled artisan employ such an antenna in the Pal et al devices.

Allowable Subject Matter

Application/Control Number: 09/704,848

Art Unit: 2821

- 6. Claims 13-15,16/13,16/14,16/15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Wimer whose telephone number is (703) 305-3555. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don K. Wong can be reached on (703) 308-4856. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Michael C. Wimer Primary Examiner Art Unit 2821

MCW 27 February 2003